

ABSTRACT OF THE DISCLOSURE

[0051] A hydrodynamic torque converter which has a hydrodynamic circuit including at least one pump wheel and one turbine wheel, wherein each of these rotors is provided with an outer shell which accepts a set of vanes which form flow chambers, the inner edges of the vanes being connecting to an inner shell, which acts as part of an internal torus. For the sake of production, each of these vanes, before it is installed in the rotor in question, forms part of a vane plate, from which material is removed by industrial processing operations to create open areas in the plate. In addition, each vane has a curved zone and a flat zone, where the curved zone has at least one plane of curvature, which proceeds from a trailing flow edge of the vane toward the leading flow edge.